Personal Finance Management Application - User Manual

Personal Finance Management Application

Table of Contents

Project Overview

This Python-based Personal Finance Management Application allows individual users to manage their financial transactions, set monthly budgets by category, and get notified if they exceed their budgets.

Installation

#

Prerequisites

- Python 3.6 or newer

#

Step-by-Step

1. Clone or download the project files
2. Navigate to project folder: `cd path/to/your/project-folder`
3. (Optional) Create a virtual environment
4. Run: `python main.py`

Application Setup

On first run, the app will create `finance_app.db` and required tables automatically.

Features and Usage

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Personal Finance Management Application - User Manual

1. User Registration

- Input username and password
- Returns success or duplicate warning

#

2. User Login

- Authenticate using stored credentials

#

3. Adding Transactions

- Enter date, category, amount, and type

#

4. Setting and Monitoring Budgets

- Set monthly limits by category
- Get alerts if exceeded

#

5. Backup and Restore

- Backup creates a timestamped `.db` file
- Restore loads data from a selected backup

Running the Application

```bash
python main.py
```

Testing

Run tests using:
```bash
python -m unittest discover tests
```

Common Errors and Troubleshooting

Personal Finance Management Application - User Manual

Error	Cause	Solution
Username exists	Already registered	Use a different name
Budget exceeded	Spending > set limit	Monitor spending
Missing argument	Function not used correctly	Fix function call

Extending the Application

- Add visualization
- Implement password hashing
- Monthly reports

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